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April 23, 1958

Betz Laboratories
Gillingham & Worth Streets
Philadelphia 24, Pa.

Attention: Mr. Max Priester

Gentlemen:

Subject: Waste Lagoon Treatment
Marlin Rockwell Corporation - Plainville

We are expecting to have available by April 30, 1958 all necessary chemicals for the treatment of our second lagoon.

On Thursday or Friday we are planning to test our pumping equipment to determine best location. Monday morning, May 5, I expect we will be able to start treatment if weather permits.

Present plans call for the following procedure:

Two rented centrifugal pumps of 300 gpm each will be set up on opposite sides of the lagoon and will discharge in opposite directions from each other in an attempt to circulate the lagoon. Our small diaphragm pump of 100 gpm capacity will be used on the south end of the lagoon to keep that area from becoming dead. We shall use a 10 foot boat with 3 HP motor for further agitation and also as a means of distributing the bentonite by spreading in the wake of the motor.

A 1/2 HP, 420 RPM electric mixer will be mounted on 55 gallon drums for mixing the alum prior to siphoning it by an ejector into the discharge line on one of the 300 gpm pumps.

Discharging the clear supernatant after a period of settling will be attempted by a siphon line run to an area below our intake to our filtration house. I am hoping the clarity of our results will enable us to avoid using a third lagoon as suggested by the State personnel.

In our lab I have run further tests and all the results were ~~good~~ ^{AR200017} after an overnight settling period was used. Quicker results were obtained when I used a sample at 21°C than the original temperature of 15°C. Adding chemicals in small quantities

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Betz Laboratories, Inc.
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April 23, 1958

-2-

over a twenty minute stirring period still resulted in good clarity and a 10% sludge.

Mr. John Reynolds was here on April 22 and will send you a report on waste discharge from our boiler. The results were approximately 854,960 $\frac{1}{2}$ of steam produced during summer months when no heating load is required. This period requires practically 100% make-up. Therefore, we are discharging about 31,000 gpd to the lagoon.

Please let me know if you can arrange to be here May 5 through May 7. I will be glad to arrange for your room and transportation.

Yours very truly,

MARLIN ROCKWELL CORPORATION

NB

M. G. Berlind
Asst. Plant Engineer

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JSA
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